ABSTRACT

A photodetecting unit 5 comprises a photosensitive region 10, a first signal processing circuit 20, and a second signal processing circuit 30. In photosensitive region 10, pixels 11_{mn} are arrayed two-dimensionally in M rows and N columns. One pixel is arranged by adjacently positioning in the same plane a photosensitive portion 12_{mn} and a photosensitive portion 13_{mn}, each outputting a current that is in accordance with the intensity of light that is made incident thereon. Across each of the pluralities of pixels 11_{11} to 11_{1N}, ・・・, 11_{M1} to 11_{MN}, aligned in a first direction in the two-dimensional array, one photosensitive portion 12_{mn} of each corresponding pixel is electrically connected to the same photosensitive portion 12_{mn} of each of the other corresponding pixels. Also across each of the pluralities of pixels 11_{11} to 11_{M1}, ・・・, 11_{1N} to 11_{MN}, aligned in a second direction in the two-dimensional array, the other photosensitive portion 13_{mn} of each corresponding pixel is connected to the same photosensitive portion 13_{mn} of each of the other corresponding pixels.